From:	Nichols (Volkert), Samuel C.
To:	Shelby Ferguson; Hill, David B; Worley, Justin
Cc:	Sanders, Larry D; Travis Pierce; Talley (Gannett Fleming), Anthony L
Subject:	RE: [External] Re: E033-065-25-00128 - New Hanover County Sheriff"s Office
Date:	Wednesday, June 4, 2025 12:07:00 PM
Attachments:	Final-NCDOT MASH Breakaway Pole - Signed.pdf Final-Reviewed StructuralAnalysis.pdf image001.png image002.png

---

Good Afternoon Shelby,
Attached are copies of the approved post. Please upload these to any encroachments that are applicable and we can go ahead and work towards approval. If any design parameters are different, please let the reviewer know and we can work on an approval for additional posts.
Thank you,

Samuel "Clark" Nichols, EI
Encroachments Engineer Consultant
Utilities Unit
North Carolina Department of Transportation
ext-scnichols1@ncdot.gov
919-707-6978
Mail:
1555 Mail Service Center
Raleigh, NC 27699-1555
Physical:
1000 Birch Ridge Drive
Raleigh, NC 27610

From: Nichols (Volkert), Samuel C.
Sent: Tuesday, June 3, 2025 4:33 PM
To: Shelby Ferguson ; Hill, David B ; Worley, Justin
Cc: Sanders, Larry D ; Travis Pierce ; Talley (Gannett Fleming), Anthony L
Subject: RE: [External] Re: E033-065-25-00128 - New Hanover County Sheriff's Office

Good Afternoon Shelby,
Geotech has approved the post foundation. Because Geotech requested additional comments to be added to the previously approved shop drawings/pole specs, I have sent this back to the TSMO Unit to re-stamp the approval. Since calculations haven't changed, I do not expect any complications or delay. Once this is stamped, we will send this to you to include in the encroachment approval packages and work on getting these encroachments approved.
Please keep in mind that if any of the design parameters change (calculations, dimensions (including height), soil parameters, etc.), this will need to be reviewed and approved again. Flock Safety will also want to submit the product for pre-approval state wide, but we will be in touch about this separately.
Thank you,

Samuel "Clark" Nichols, EI
Encroachments Engineer Consultant
Utilities Unit
North Carolina Department of Transportation

ext-scnichols1@ncdot.gov
919-707-6978
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1000 Birch Ridge Drive
Raleigh, NC 27610

From: Shelby Ferguson <shelby.ferguson@flocksafety.com>
Sent: Tuesday, June 3, 2025 1:44 PM
To: Hill, David B <dbhill1@ncdot.gov>; Worley, Justin <jworley@columbussheriff.com>
Cc: Sanders, Larry D <ldsanders1@ncdot.gov>; Nichols (Volkert), Samuel C. <ext-scnichols1@ncdot.gov>; Travis Pierce <travis.pierce@flocksafety.com>; Talley (Gannett Fleming), Anthony L <ext-altalley@ncdot.gov>
Subject: Re: [External] Re: E033-065-25-00128 - New Hanover County Sheriff's Office

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Good Afternoon David,
Have you received any more feedback on the pole specs? We are hoping to get these approved ASAP.
Appreciate your help!

On Wed, May 21, 2025 at 7:20 PM Shelby Ferguson <shelby.ferguson@flocksafety.com> wrote:

> Good Evening,
> Please see the updated pole specs attached. I am also adding Captain Worley from the Columbus County Sheriff's Office to this email string so that we are not duplicating efforts here.
> Please let us know if there are any additional comments or questions, we are very excited to get these moving forward.
> Thanks everyone!
>
> On Wed, May 14, 2025 at 10:22 AM Hill, David B <dbhill1@ncdot.gov> wrote:
>
> > Good Morning,
> > I have been working with Justin Worley of Columbus County Sheriff's Office and our Geotech group to get a pole foundation approved for statewide use. Our Geotech group had some comments that were uploaded to the portal and shared with Justin as well. Those comments are attached. Once we get those revisions, I will forward on to Geotech and a foundation approval should be soon after. As of this email, I have not received any updated drawings to address these comments.
> > Please let me know if you have any questions or need anything else.
> > **David Hill, E.I.T.**
> > Encroachment Engineer
> > P: 919-707-7191
> > E: dbhill1@ncdot.gov

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From: Shelby Ferguson <shelby.ferguson@flocksafety.com>
Sent: Tuesday, May 13, 2025 6:04 PM
To: Sanders, Larry D <ldsanders1@ncdot.gov>
Cc: Nichols (Volkert), Samuel C. <ext-scnichols1@ncdot.gov>; Hill, David B <dbhill1@ncdot.gov>; Travis Pierce <travis.pierce@flocksafety.com>; Talley (Gannett Fleming), Anthony L <ext-altalley@ncdot.gov>
Subject: Re: [External] Re: E033-065-25-00128 - New Hanover County Sheriff's Office

You don't often get email from shelby.ferguson@flocksafety.com. Learn why this is important
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Appreciate everyone's assistance here. We are very excited to move forward.

As always, please reach out to me if you need anything

Have a great night!

On Tue, May 13, 2025 at 6:01 PM Sanders, Larry D <ldsanders1@ncdot.gov> wrote:

> Greetings, Shelby,
> I spoke with Clark. He and Mr. Dave Hill will hope to communicate and provide an update on the internal DOT processing tomorrow. I would expect one of them to relay any updates at that time.
> Thanks for your patience!
> Larry Sanders, MGIST, PE, CPM
> State Encroachments Engineer
> Utilities Unit
> North Carolina Department of Transportation
> 919 707 6979 office
> ldsanders1@ncdot.gov
> Physical:
> 1000 Birch Ridge Drive
> Raleigh, NC 27610
> Mail
> 1555 Mail Service Center
> Raleigh, NC 27699-1555
>
>
>
> **From:** Shelby Ferguson <shelby.ferguson@flocksafety.com>
> **Sent:** Tuesday, May 13, 2025 5:35 PM

To: Sanders, Larry D <ldsanders1@ncdot.gov>
Cc: Nichols (Volkert), Samuel C. <ext-scnichols1@ncdot.gov>; Hill, David B <dbhill1@ncdot.gov>; Travis Pierce <travis.pierce@flocksafety.com>; Talley (Gannett Fleming), Anthony L <ext-altalley@ncdot.gov>
Subject: Re: [External] Re: E033-065-25-00128 - New Hanover County Sheriff's Office

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I believe he has been reaching out with no response or comments provided which is why I was wondering if this was something you could assist with.
Thank you!

On Tue, May 13, 2025 at 5:26 PM Sanders, Larry D <ldsanders1@ncdot.gov> wrote:

> Clark,
> Since I don't have all the details, could you please reach out to Geotech unit again for review comment?
> Thanks!
> Larry Sanders, MGIST, PE, CPM
> State Encroachments Engineer
> Utilities Unit
> North Carolina Department of Transportation
> 919 707 6979 office
> ldsanders1@ncdot.gov
> Physical:
> 1000 Birch Ridge Drive
> Raleigh, NC 27610
> Mail
> 1555 Mail Service Center
> Raleigh, NC 27699-1555
>
> **From:** Nichols (Volkert), Samuel C. <ext-scnichols1@ncdot.gov>
> **Sent:** Tuesday, May 13, 2025 5:13 PM
> **To:** Shelby Ferguson <shelby.ferguson@flocksafety.com>; Sanders, Larry D <ldsanders1@ncdot.gov>; Hill, David B <dbhill1@ncdot.gov>
> **Cc:** Travis Pierce <travis.pierce@flocksafety.com>; Talley (Gannett Fleming), Anthony L <ext-altalley@ncdot.gov>
> **Subject:** RE: [External] Re: E033-065-25-00128 - New Hanover County Sheriff's Office
>
> Adding in David Hill & Anthony Talley
> **Samuel "Clark" Nichols, EI**
> Encroachments Engineer Consultant
> Utilities Unit
> North Carolina Department of Transportation

ext-scnichols1@ncdot.gov
919-707-6978
Mail:
1555 Mail Service Center
Raleigh, NC 27699-1555
Physical:
1000 Birch Ridge Drive
Raleigh, NC 27610

From: Shelby Ferguson <shelby.ferguson@flocksafety.com>
Sent: Tuesday, May 13, 2025 5:10 PM
To: Nichols (Volkert), Samuel C. <ext-scnichols1@ncdot.gov>; Sanders, Larry D <ldsanders1@ncdot.gov>
Cc: Travis Pierce <travis.pierce@flocksafety.com>
Subject: Re: [External] Re: E033-065-25-00128 - New Hanover County Sheriff's Office

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Mr. Sanders,
Is this something you can assist with? We are pending approval of our foundation.
Please let me know if anything is needed.
Thank you so much!

On Tue, May 13, 2025 at 4:57 PM Nichols (Volkert), Samuel C. <ext-scnichols1@ncdot.gov> wrote:

> Good Afternoon,
> Unfortunately I haven't heard anything back yet. I followed up earlier and will let you know as soon as I hear back. We do not need anything else until we get feedback on the foundation.
> Thank you,
> **Samuel "Clark" Nichols, EI**
> Encroachments Engineer Consultant
> Utilities Unit
> North Carolina Department of Transportation
> ext-scnichols1@ncdot.gov
> 919-707-6978
> Mail:
> 1555 Mail Service Center
> Raleigh, NC 27699-1555
> Physical:
> 1000 Birch Ridge Drive
> Raleigh, NC 27610
>
> **From:** Shelby Ferguson <shelby.ferguson@flocksafety.com>
> **Sent:** Tuesday, May 13, 2025 2:21 PM
> **To:** Nichols (Volkert), Samuel C. <ext-scnichols1@ncdot.gov>

Cc: Travis Pierce <travis.pierce@flocksafety.com>
Subject: Re: [External] Re: E033-065-25-00128 - New Hanover County Sheriff's Office

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Good Afternoon,
Have you heard anything back about the foundation approval? Is there anything else we need to provide here?
Thanks!

On Tue, Apr 29, 2025 at 10:20 AM Shelby Ferguson <shelby.ferguson@flocksafety.com> wrote:

> Thank you, please keep us posted.
> On Mon, Apr 28, 2025 at 9:14 AM Nichols (Volkert), Samuel C. <ext-scnichols1@ncdot.gov> wrote:
>
> > Good Morning Shelby,
> >
> > We haven't heard back yet, but my co-worker sent a follow up email on Friday.
> > **Samuel "Clark" Nichols, EI**
> > Encroachments Engineer Consultant
> > Utilities Unit
> > North Carolina Department of Transportation
> > ext-scnichols1@ncdot.gov
> > 919-707-6978
> > Mail:
> > 1555 Mail Service Center
> > Raleigh, NC 27699-1555
> > Physical:
> > 1000 Birch Ridge Drive
> > Raleigh, NC 27610
> >
> > **From:** Shelby Ferguson <shelby.ferguson@flocksafety.com>
> > **Sent:** Wednesday, April 23, 2025 6:11 PM
> > **To:** Nichols (Volkert), Samuel C. <ext-scnichols1@ncdot.gov>; Travis Pierce <travis.pierce@flocksafety.com>
> > **Subject:** Re: [External] Re: E033-065-25-00128 - New Hanover County Sheriff's Office
> >
> > **CAUTION:** External email. Do not click links or open attachments unless verified. Report suspicious emails with the Report Message button located on your Outlook menu bar on the Home tab.
> >
> > Good Afternoon,
> > Have we received any feedback on the foundation? Thank you!
> > On Fri, Apr 11, 2025 at 9:57 AM Shelby Ferguson <shelby.ferguson@flocksafety.com> wrote:
> >
> > > Good Morning, Thank you so much - I look forward to hearing from you.

On Fri, Apr 11, 2025 at 9:51 AM Nichols (Volkert), Samuel C. <ext-scnichols1@ncdot.gov> wrote:

> Good Morning Shelby,
>
> 1. Looking closer, yes it appears this is sufficient.
> 2. I will reach out to our Geotech Unit for a comment and let you know as soon as I hear back.
>
> Thank you,
> **Samuel "Clark" Nichols, EI**
> Encroachments Engineer Consultant
> Utilities Unit
> North Carolina Department of Transportation
> ext-scnichols1@ncdot.gov
> 919-707-6978
> Mail:
> 1555 Mail Service Center
> Raleigh, NC 27699-1555
> Physical:
> 1000 Birch Ridge Drive
> Raleigh, NC 27610
>
> **From:** Shelby Ferguson <shelby.ferguson@flocksafety.com>
> **Sent:** Thursday, April 10, 2025 4:03 PM
> **To:** Nichols (Volkert), Samuel C. <ext-scnichols1@ncdot.gov>
> **Subject:** Re: [External] Re: E033-065-25-00128 - New Hanover County Sheriff's Office
>
> **CAUTION:** External email. Do not click links or open attachments unless verified. Report suspicious emails with the Report Message button located on your Outlook menu bar on the Home tab.
>
> Hi there,
> As discussed my questions are below.
> 1. A lateral stability check using LPile or similar that checks deflection. Loads (wind load) would be provided by the structural engineer.
> **I believe that this was provided on page 10-28 - could you please confirm or let me know if you are looking for something else here?**
> 2. A foundation detail showing the foundation type, all details, and a method of installation. In the past we have seen some try to do a method where the hole is backfilled with soil and compacted around the pole. This would not be allowed. We would want to see a drilled pier type foundation.
> **We are promising a 42" concrete foundation. Our**

installation does not consist of drilling. Can you confirm this would be sufficient? See Spec.03.
Thank you!

On Thu, Apr 10, 2025 at 3:42 PM Nichols (Volkert), Samuel C. <ext-scnichols1@ncdot.gov> wrote:

> Good Afternoon Shelby,
> You would need to move Location 2 to west of Brierwood Rd, or east of market St. The project runs along the majority of Gordon Rd. I have attached the first and last plan views to show the beginning and end of the project.
>
> The pole design you submitted is now on the pre-approved list for poles as of this morning.
> We have received the requirements from our Geotech Unit for foundation Requirements. Please submit the following:
>
> 1. A lateral stability check using LPile or similar that checks deflection. Loads (wind load) would be provided by the structural engineer.
> 2. A foundation detail showing the foundation type, all details, and a method of installation. In the past we have seen some try to do a method where the hole is backfilled with soil and compacted around the pole. This would not be allowed. We would want to see a drilled pier type foundation.
> 3. A site specific subsurface boring is not required, but we would want the following assumed soil parameters and notes added to the plans:
>
>   a. The pole foundation design is based on the following in-situ assumed soil parameters
>
>   i. Unit Weight = 110 pcf
>
>   ii. Friction Angle = 0 deg
>
>   iii. Cohesion = 160 psf
>
>   iv. Depth to Groundwater Table = ?? ft
>
>   v. Any other soil parameter that was assumed in the design.
>
>   b. “If the assumed soil parameters, assumed ground water table, or assumed standard single pole design are not applicable, a site specific design is required.”
>
> 4. Add “THE DRAWINGS AND DESIGN CALCULATIONS SHOULD ALSO BE SENT TO NCDOT SIGNAL DESIGN SECTION FOR REVIEW

AND APPROVAL" Note on plans

Please let me know if you have any further questions.
Thank you,

Samuel "Clark" Nichols, EI
Encroachments Engineer Consultant
Utilities Unit
North Carolina Department of Transportation
ext-scnichols1@ncdot.gov
919-707-6978
Mail:
1555 Mail Service Center
Raleigh, NC 27699-1555
Physical:
1000 Birch Ridge Drive
Raleigh, NC 27610

From: Shelby Ferguson <shelby.ferguson@flocksafety.com>
Sent: Wednesday, April 9, 2025 1:23 PM
To: Nichols (Volkert), Samuel C. <ext-scnichols1@ncdot.gov>
Subject: [External] Re: E033-065-25-00128 - New Hanover County Sheriff's Office

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Hi Clark,

Can you let me know where we need to move location 2 to be out of the work zone?
For the locations in future projects, we will relocate them prior to work beginning, we just ask for a 60 day notice to be able to relocate it.
Thanks!

On Mon, Apr 7, 2025 at 4:17 PM Nichols (Volkert), Samuel C. <ext-scnichols1@ncdot.gov> wrote:

> Good Afternoon Shelby,
> I have reached out to project staff about potential STIP conflicts with the 7 locations. Most locations are not in direct conflict, but some may need to be relocated in the future (2-4 years) at the applicants expense.
> Site 2 is in conflict with 2 STIPs under active construction. You would need a hold-harmless letter from the Contractor (ST. Wooten) to work inside U-6202. I-6039 is an active rehabilitation project and will also need to be coordinated around. Please let me know if you if you plan to pursue a hold-harmless letter, or move this location out of the active STIPs.

Site 4 has a projected Let date of 8/21/2029 (with relocation to start before this).
Site 6 has a projected Let date of 3/20/2029 (with relocation to start before this).
Thank you,

Samuel "Clark" Nichols, EI
Encroachments Engineer Consultant
Utilities Unit
North Carolina Department of Transportation
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